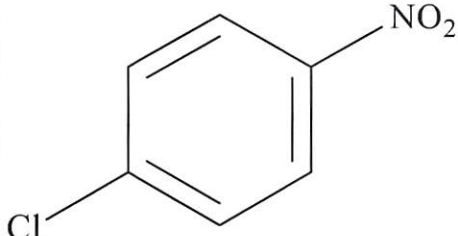


## Certificate of Analysis



Certificate No.: 20250314501-2

Date: March 14, 2025

Retest date: March 12, 2028

<b>Compound Name:</b>	<b>Acetaminophen Impurity 9</b>	
<b>Synonyms:</b>	1-chloro-4-nitrobenzene	
<b>TLC Catalogue Number:</b>	A-0240	
<b>CAS Number:</b>	100-00-5	
<b>Alternate CAS Number:</b>	N/A	
<b>Molecular Weight:</b>	157.55	
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>4</sub> ClNO <sub>2</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	3868-023A1	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	Methanol, DMSO, DMF	

Test Description	Specifications	Results
<b>Visual Description</b>	Pale yellow solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Elemental Analysis</b>	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.8%</b>
<b>Impurity (HPLC)</b>	RT 8.35, 0.16%	
<b>Water Content (KF)</b>	N/A	<b>0.0%</b>
<b>Residual Solvents (NMR)</b>	No residual solvent	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.8%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		02/09/2026
Approved by:	Quality Assurance		02/09/2026

**Attachments:** Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.